

.NET - The Start Of A New Generation

**Paul Maritz
Group Vice President
Platforms Group
Microsoft Corp.**



A New Generation Of Software From Microsoft

1993 1997
Internet Internet
1st Gen 2nd Gen

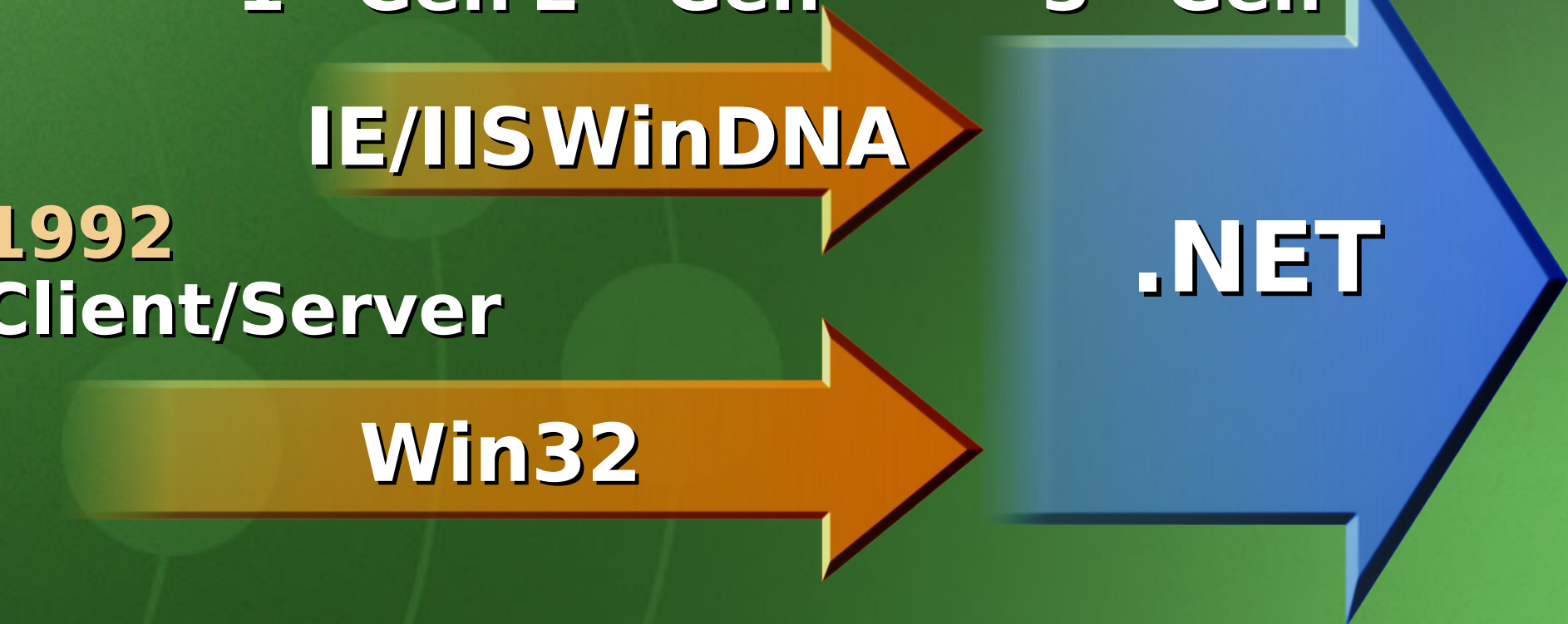
2000
Internet
3rd Gen

IE/IIS WinDNA

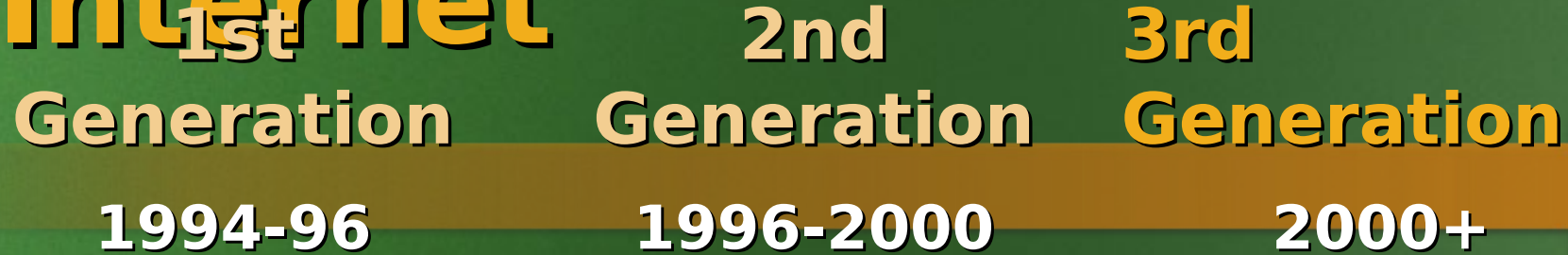
1992
Client/Server

Win32

.NET

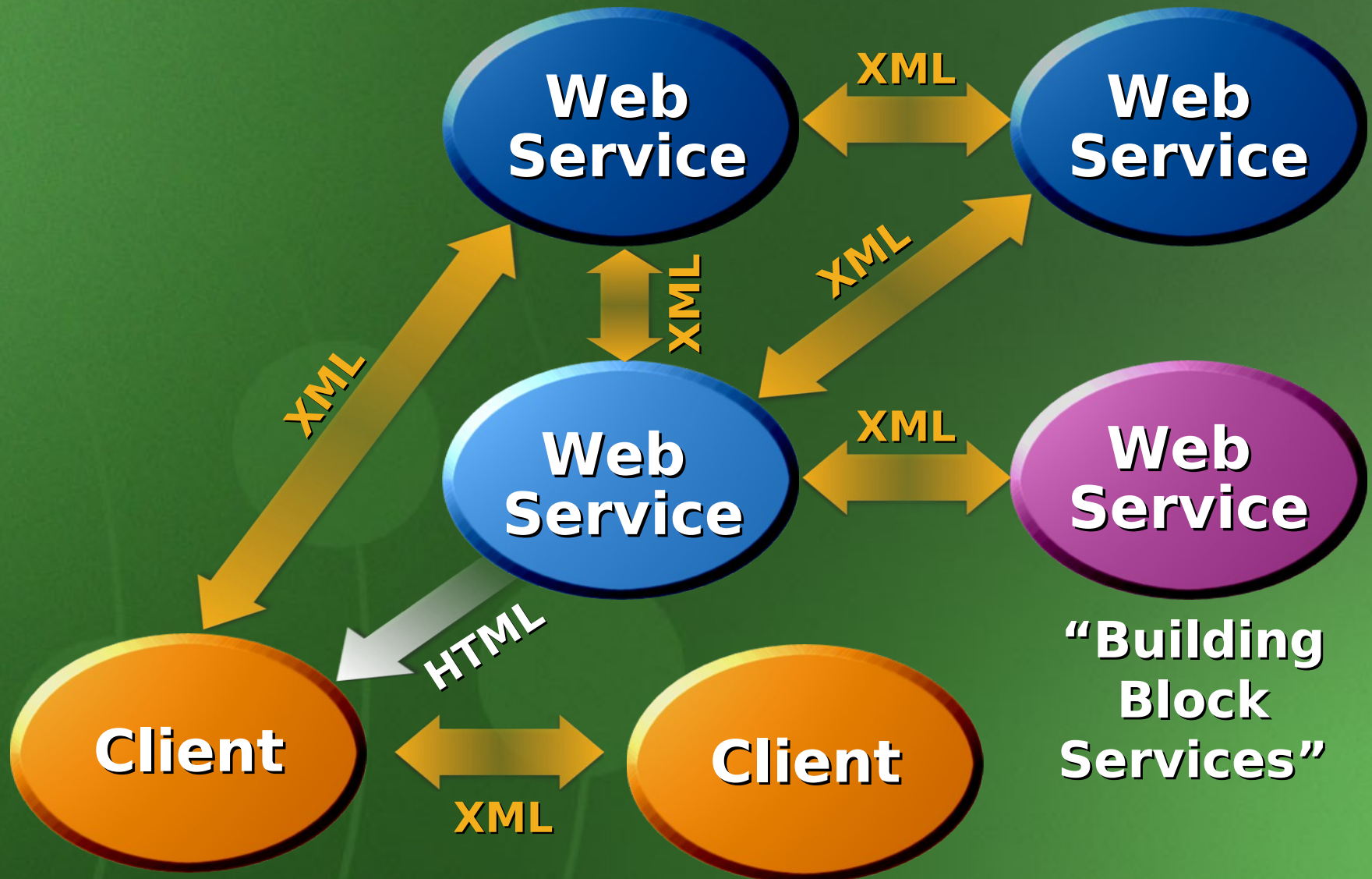


Third Generation Internet



Static pages	Dynamic pages	Beyond browsing
E-mail, basic Information	Start of personalization , e-commerce	Web services
IE, IIS	Windows DNA	Microsoft .NET

Web Services



XML - A Key Ingredient

- **A universal data exchange format**
 - Simple, open, broadly adopted
- **Contract for interactions between services**
 - Enables powerful distributed apps
- **Impacts the evolution of all software**



Web Services

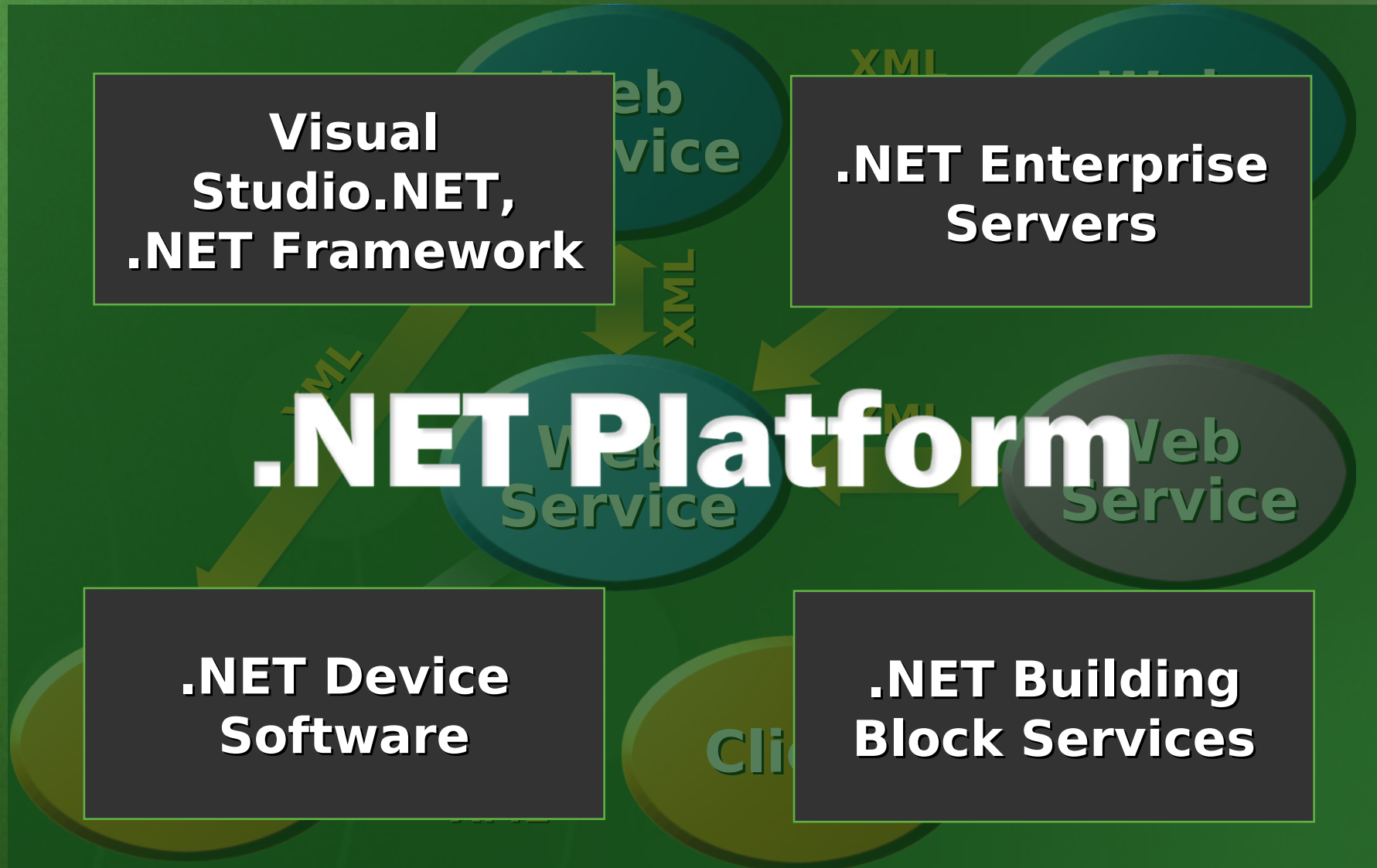
**Visual
Studio.NET,
.NET Framework**

**.NET Enterprise
Servers**

.NET Platform

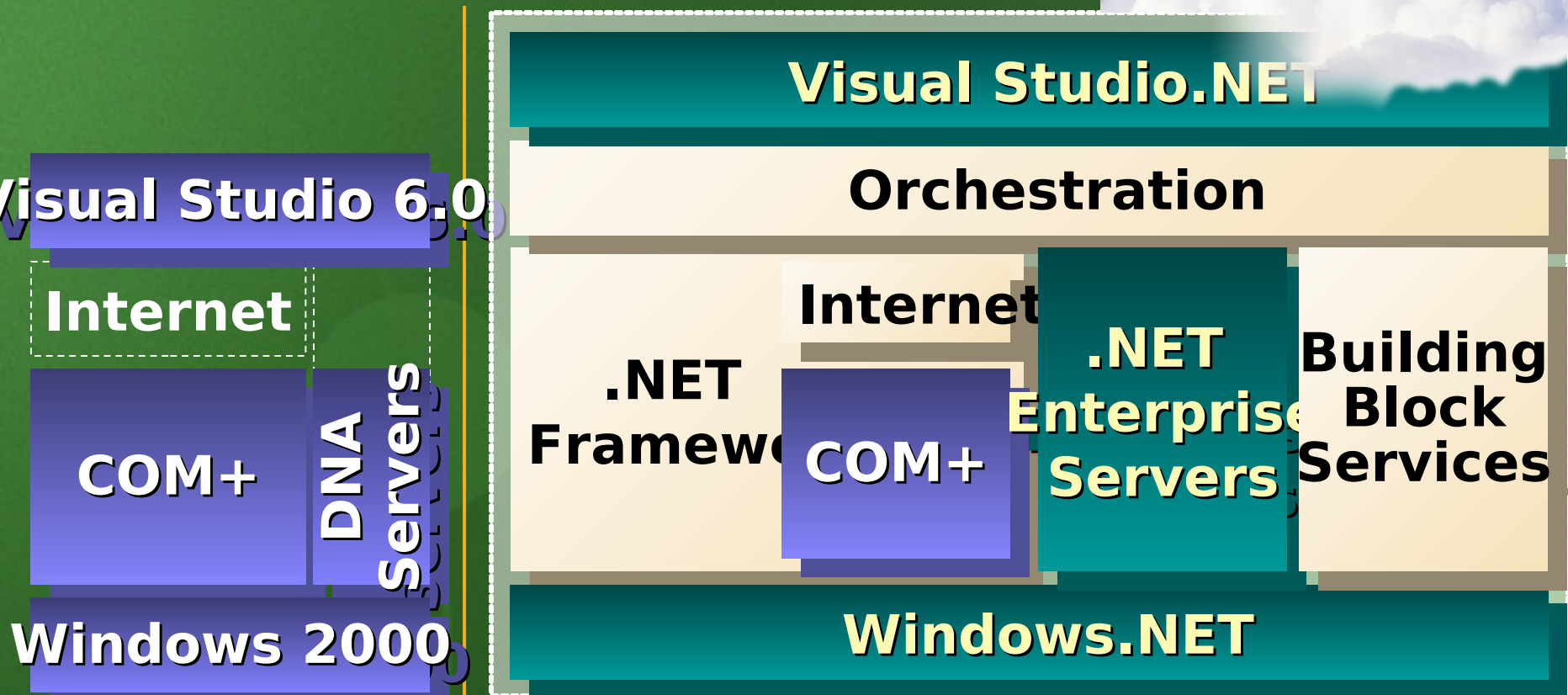
**.NET Device
Software**

**.NET Building
Block Services**



.NET Platform

Components and Evolution



2nd Generation **3rd Generation - the .NET Platform**

**Available
Today**

**With .NET
Enhancements**

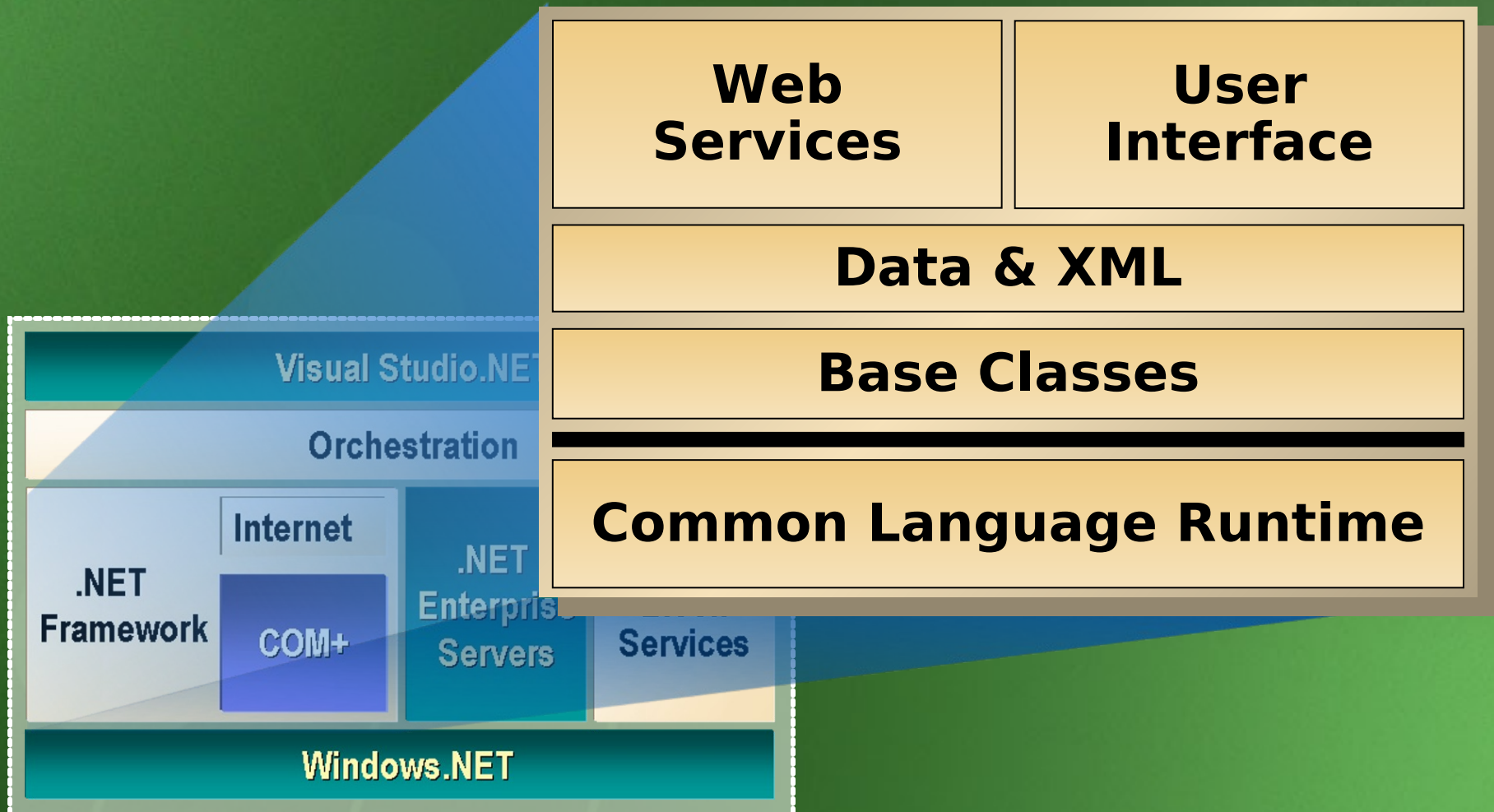
**New
Capabilities**

Empowering Developers With .NET - First Steps

1. Rapidly build rich Internet user experiences
2. Transform Web sites into Web services
3. Orchestrate multiple Web services
4. Federate Web services and corporate services

announcing...

.NET Framework



.NET Framework

- **Common Language Runtime**
 - Multi-language development and integration
- **Secure, integrated class libraries**
 - Facilitates Web services development
 - Integral SOAP support
 - Encapsulates Windows and COM+ services
- **Active Server Pages+**
 - Takes ASP to the next level

announcing...

Visual Studio.NET

- “Drag and Drop” Web services development
 - Fully supports .NET Framework
 - Multi-language support
 - Open, extensible development environment
- Goal: Enable 6M Visual Studio developers worldwide to target .NET Platform**

Microsoft®

Visual Studio.net™

.NET Framework and Visual Studio.NET

demo

Dave Mendlen
Lead Product Manager
Microsoft Corp.

Microsoft®

Visual Studio.net™

.NET Framework Industry Support

Programming languages and tools

- Components
- Training and services

razorfish



GREAT PLAINS

Active
STATE

COMPUWARE



Rational



Sapient

O'REILLY®

rare
rare MEDIUM

LEAD Technologies

ComponentSource™
The Definitive Source of Software Components

dyalog APL

PROXICOM

SoftwareArtisans

centura



avanadeSM

WindwardStar



WROX
PROGRAMMER TO
PROGRAMMER™



Macmillan USA



COBOL

WebGecko
Software



FARPOINT
TECHNOLOGIES INC

Merrill Lynch



FileNET

Sheridan

Seagate Software



ZEFER

Interactive Software Engineering
Tools and Components for Enterprise Applications

The McGraw-Hill Companies

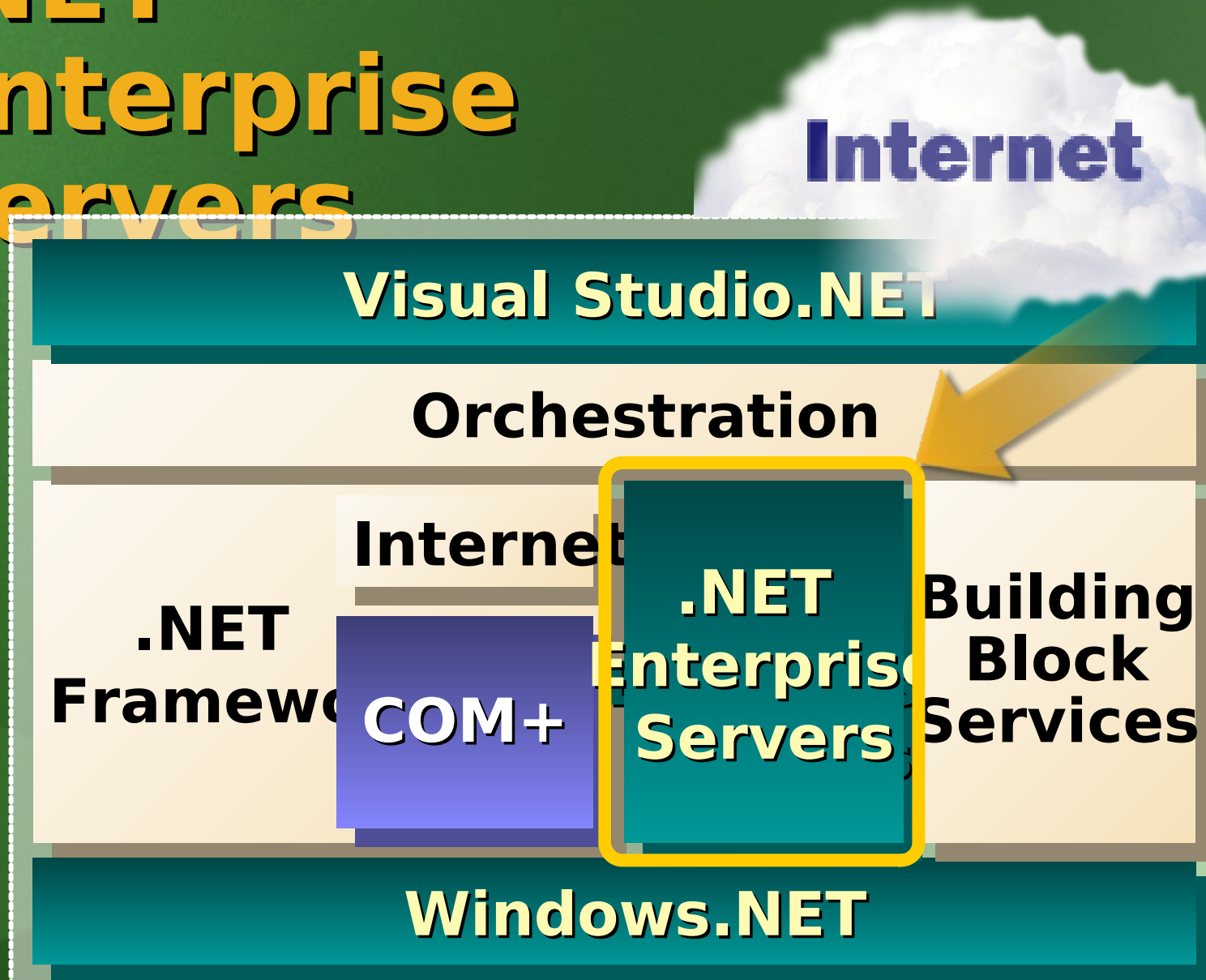
Great Plains **demo**

Steve Anonsen
Chief Architect
Great Plains Software



GREAT PLAINS

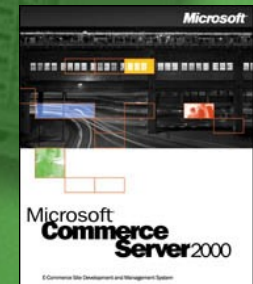
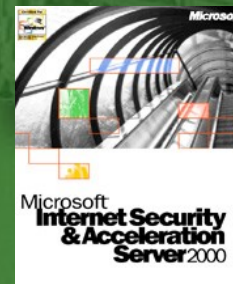
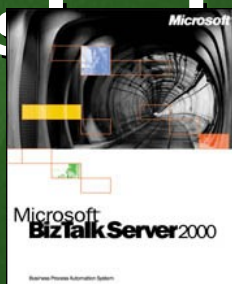
.NET Enterprise Servers



.NET Enterprise Servers

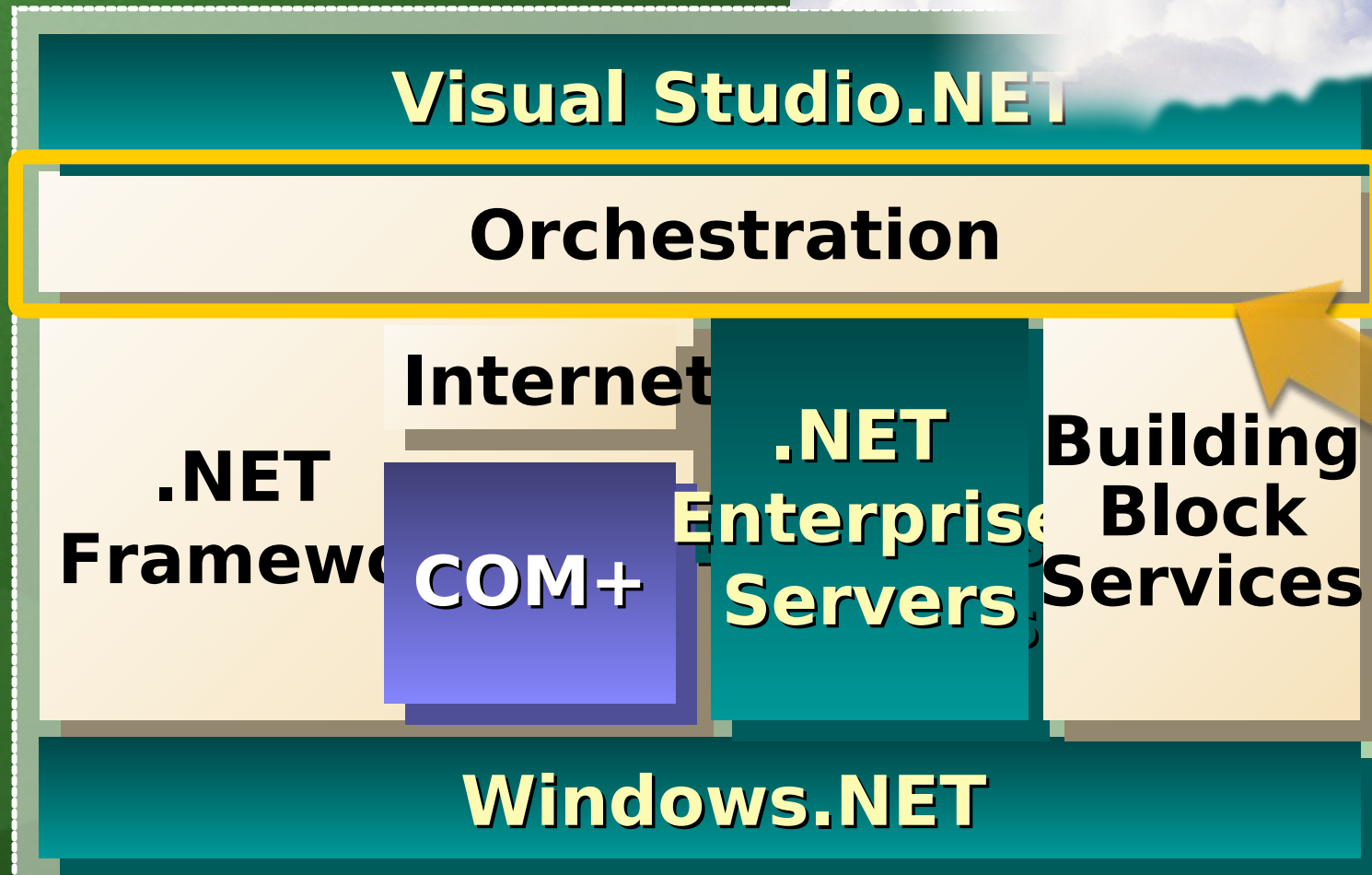
Fastest way to Web-enable
and integrate the enterprise

- Scalability, Reliability, Management
- Deep XML support is foundation for .NET
- Integrate within and across organizations

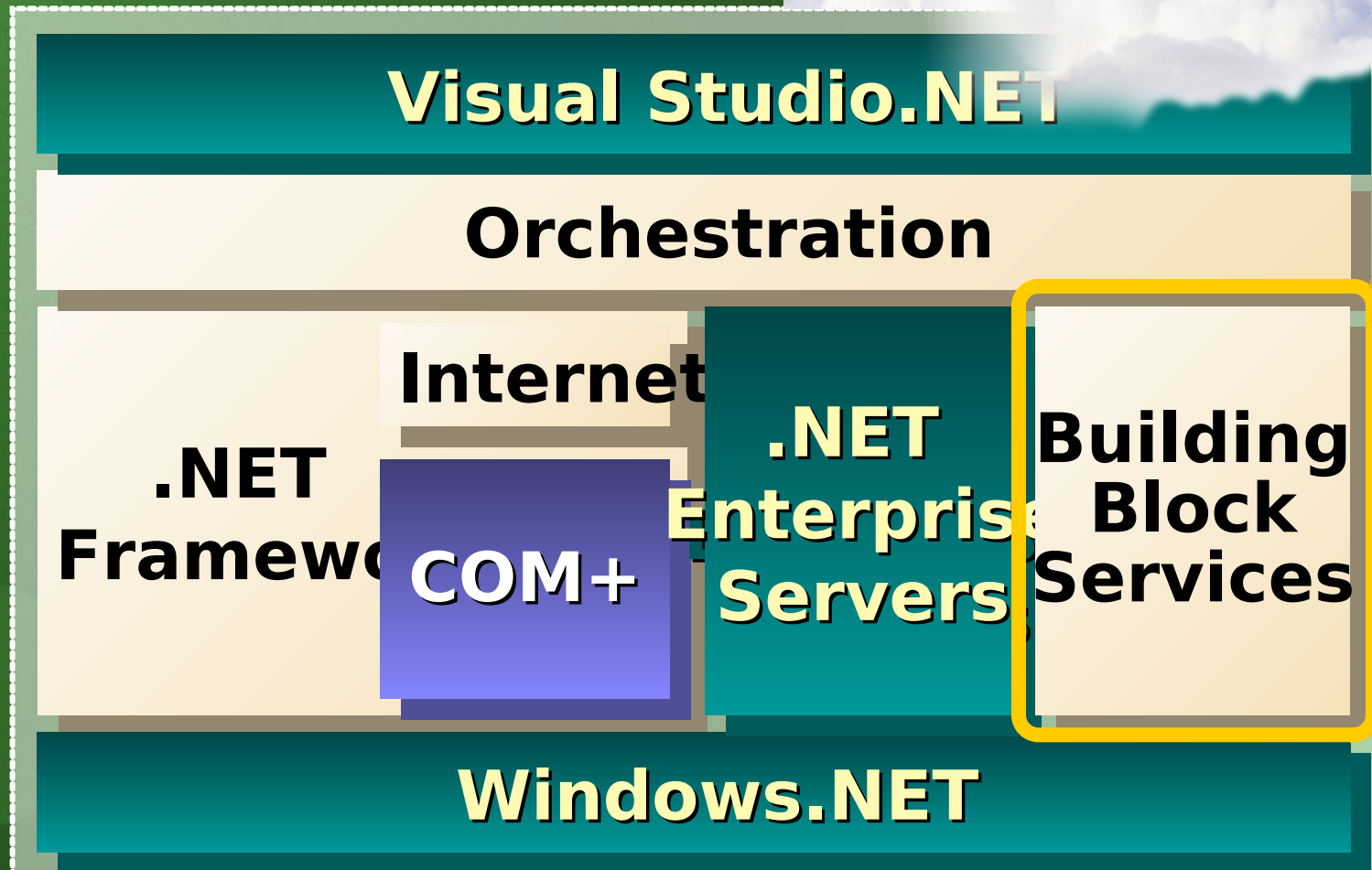


Orchestration: Announcing XLANGTM

Internet



Building Block Services



.NET Building Blocks

- **Highly distributed, XML-based**
- **Work on offline system, corporate server or across the Internet**

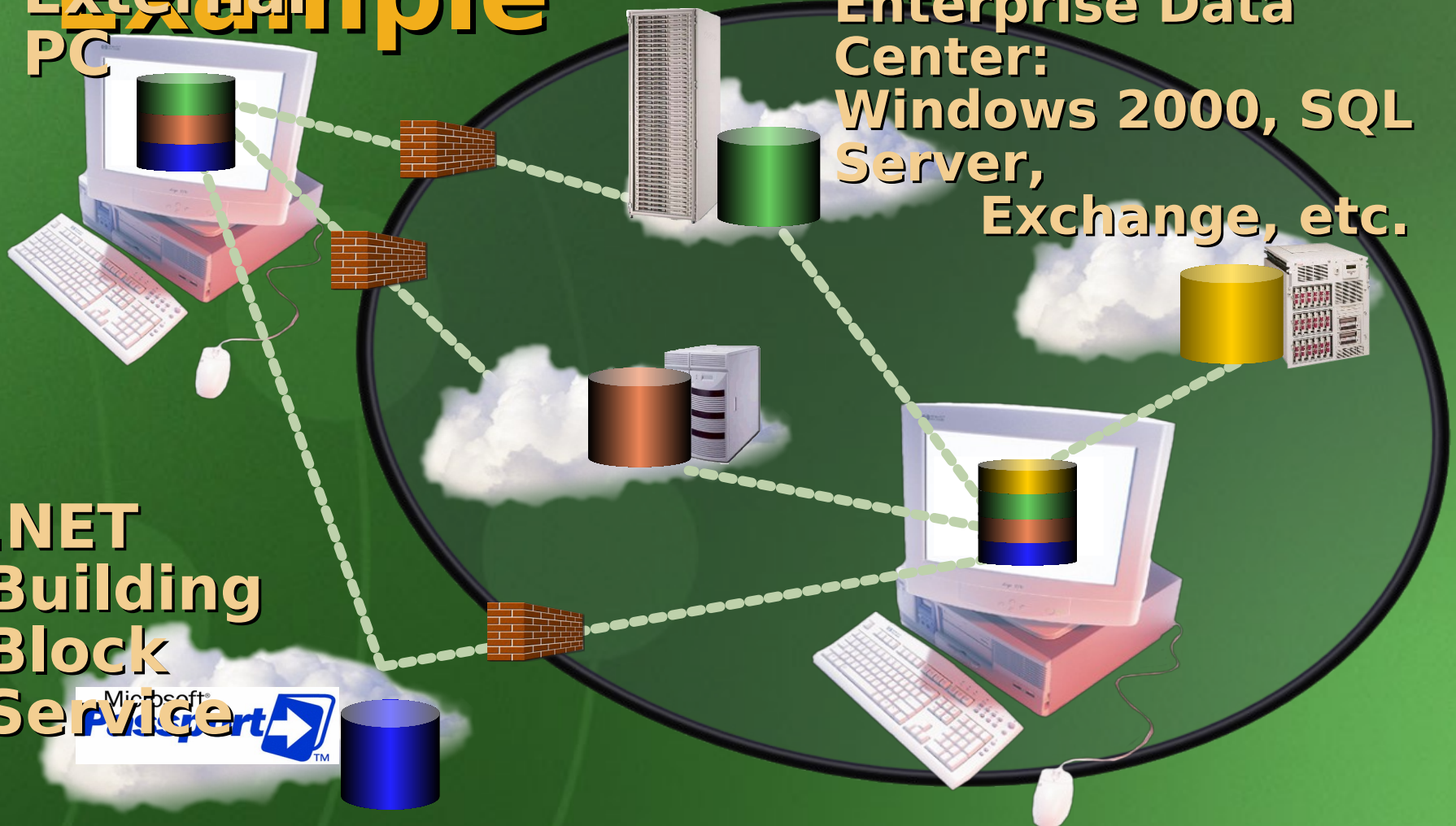


Web Service And Server Federation

Example
External
PC

Enterprise Data
Center:
Windows 2000, SQL
Server,
Exchange, etc.

.NET
Building
Block
Service



.NET Platform

Today

2000/2001

2001+

**Infrastru
cture
and
Tools**

**.NET
Framework,
Visual
Studio.NET
tech
previews**

**.NET
Framework,
Visual
Studio.NET**

v2

**Building
Block
Services**

Passport

**Additional
key services**

**Corporat
e
federati
on**

**Enterpris
e Servers**

**.NET
Enterprise
Servers in
beta**

**.NET
Enterprise
Servers**

v2

Merrill Lynch

demo

Gafar Lawal
Vice President
Private Client Architecture
Merrill Lynch



Merrill Lynch And .NET Framework

Merrill Lynch Direct Requirements:

**Richest possible user
experience**

**Scalability and
performance**

- **Up to 25 million
users**

**Rapid development
and deployment**

High performance

.NET Framework Delivers

**ASP+ Controls provide
best experience for
each client**

Ultimate customization

**Shorter time to
market:**

- **More productive with
ASP+ and C#**
- **No more authoring for
every browser**

**Performance is 2x
faster**

Windows Roadmap

**Serv
ers**



**Busine
ss
Client
PCs**



**Consum
er
Client
PCs**



**“Whistl
er”**
First
release
with .NET
technolog
y

2H ‘01

**“Blackco
mb”**

2H ‘02

2000

2001

Post 2001

.NET Devices Roadmap

**.NET
Client
Software**

**Mobile
Explorer**

**Mobile
Explorer
v3**

**.NET
Compact
Framework**

**Mobile
and
Multimedia
Devices
Server
Appliances**

**Handheld
PC**

**Pocket
PC**

**MS TV
Settop
v1**

**Wireless
Pocket PC**

**MS TV
Settop
v2**

**Stinger
Smart
Phone**

**ces
WindowsNT
Embedded**

**Server
Appliance
Kit**

**Whistler
Embedd
ed**

**Smart
Card**

**Smart
Card
for
Windows
1.1**

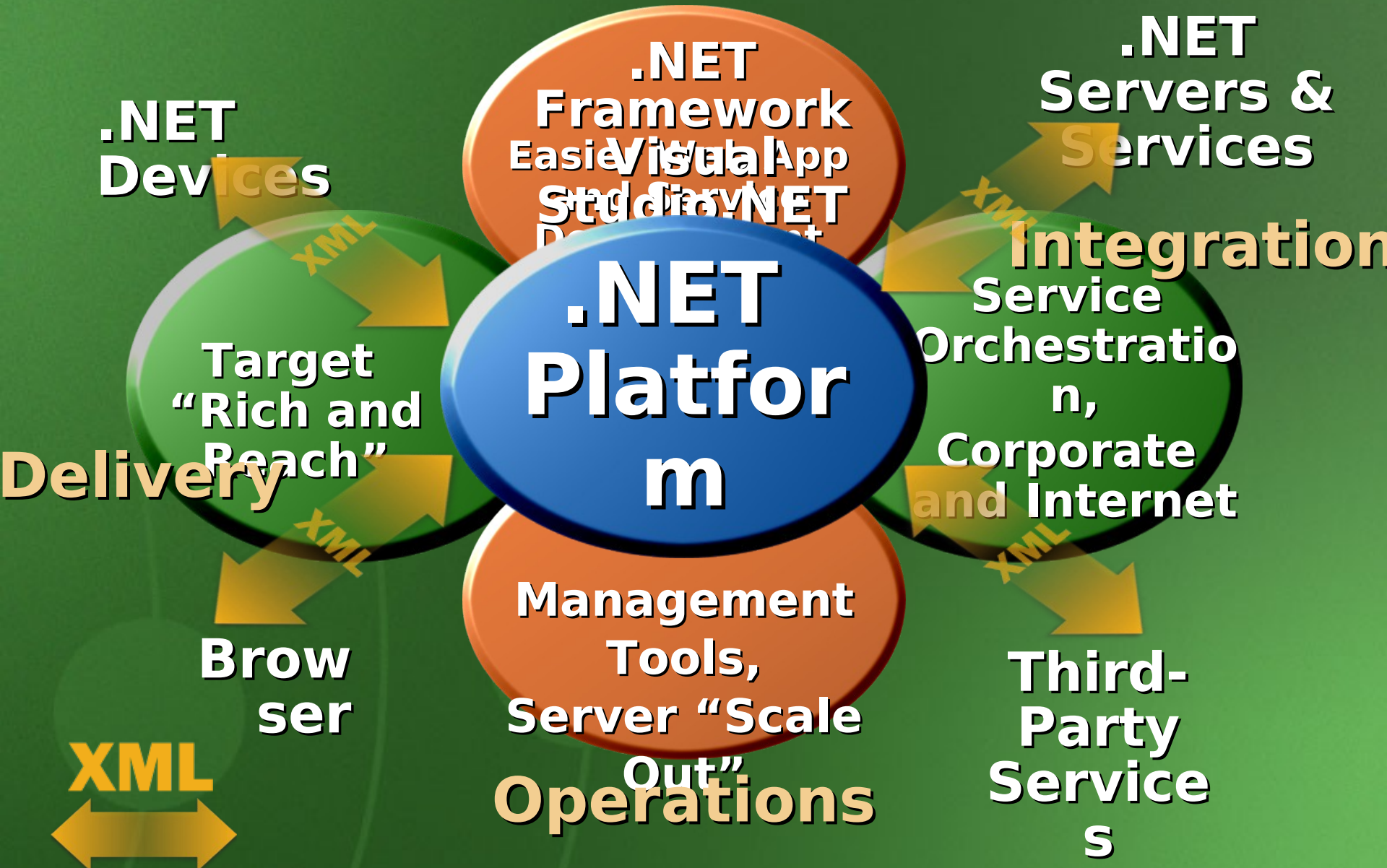
**Smart
Card
for
Windows
1.5**

2000

2001



Development



.NET Call To Action

- **Be first on your block to do Web services**
- **Learn about**
 - **Visual Studio.NET and .NET Framework**
 - **New .NET Enterprise Servers**
- **Migrate to Windows 2000**
 - **SQL Server 2000 and Exchange 2000**
- **Take home pre-release software**
- **Have a great conference!**

Where do **you** want to go today?

Microsoft

Microsoft®
PDC 2000
Professional Developers Conference

Microsoft®
.net

the defining

point